EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	323	715/505	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:15
S2	79	715/504	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:15
S3	751	715/517	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:16
S4	280	715/507	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:17
S5	2	"6662340".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:18
S6	2	"6535883".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:19
S7	2	"6981028".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/05 12:29
S8	15210	content and field and label and (@ad<"20001219" and @rlad<"20001219")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 12:30

EAST Search History

S9	53594	content and field and label and assign rules and (@ad<"20001219" and @rlad<"20001219")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 12:31
S10	949	content and field and label and assign and rules and (@ad<"20001219" and @rlad<"20001219")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 12:53
S11	943	content and field and label and assign and rules and (@ad<"20001219" and @rlad<"20001219") and (form or document)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 12:54

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1. Complete answer aggregates for treelike databases: a novel approach to combine querying and navigation
Holger Meuss, Klaus U. Schulz
April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2
Publisher: ACM Press
Full text available: pdf(356.60 KB) Additional Information: full citation, abstract, references, citings, index terms

The use of markup languages like SGML, HTML or XML for encoding the strucutre of documents or linguistic data has lead to many databases where entries are adequately described as trees. In this context querying formalisms are interesting that offer the possiblity to refer both to textual content and logical structure. We consider models where the strucutre specified in a query is not only used as a filter, but also for selecting and presenting different parts of the data. If answers are formaliz ...

Keywords: SGML, XML, answer presentation, information retrieval, logic, query languages, semistructured data, structured documents, tree databases, tree matching

2 Shape-based retrieval and analysis of 3D models
Thomas Funkhouser, Michael Kazhdan
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

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3 Modeling the storage architectures of commercial database systems
D. S. Batory
December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4
Publisher: ACM Press
Full text available: pdf(4.46 MB) Additional Information: full citation, abstract, references, citings, index terms, review

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4 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3
Publisher: ACM Press

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

5 On the design of relational database schemata

Carlo Zaniolo, Miachel A. Meklanoff
March 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 1
Publisher: ACM Press

Full text available: pdf(3.43 MB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: decompositon, functional dependencies, minimal covers, multivalued dependencies, relational databases, schema design

6 A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis
December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4
Publisher: ACM Press

Full text available: pdf(517.77 KB) Additional Information: full citation, abstract, references, index terms

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance.Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

7 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press

Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, index terms, review

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

8 A taxonomy for secure object-oriented databases
Martin S. Olivier, Sebastiaan H. von Solms
March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1
Publisher: ACM Press

Full text available: pdf(3.05 MB) Additional Information: full citation, abstract, references, citings, index terms, review

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Keywords: formal security models, information security, multilevel secure databases, object-orientation

9 Integrating document and data retrieval based on XML
Jan-Marco Bremer, Michael Gertz
January 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(841.10 KB) Additional Information: full citation, abstract

For querying structured and semistructured data, data retrieval and document retrieval are two valuable and complementary techniques that have not yet been fully integrated. In this paper, we introduce integrated information retrieval (IIR), an XML-based retrieval approach that closes this gap. We introduce the syntax and semantics of an extension of the XQuery language called XQuery/IR. The extended language realizes IIR and thereby allows users to formulate new kinds of queries by nesting rank ...

Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

10 Establishing the semantic web 1: Data extraction and label assignment for web databases
Jiying Wang, Fred H. Lochovsky
May 2003 **Proceedings of the 12th international conference on World Wide Web**
Publisher: ACM Press

Full text available: pdf(651.74 KB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: HTML forms, automatic wrapper induction, data annotation, hidden web, information integration, web information extraction

11 Content-based multimedia information retrieval: State of the art and challenges

Michael S. Lew, Nicu Sebe, Chabane Djeraba, Ramesh Jain

February 2006 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(220.24 KB) Additional Information: full citation, abstract, references, index terms

Extending beyond the boundaries of science, art, and culture, content-based multimedia information retrieval provides new paradigms and methods for searching through the myriad variety of media all over the world. This survey reviews 100+ recent articles on content-based multimedia information retrieval and discusses their role in current research directions which include browsing and search paradigms, user studies, affective computing, learning, semantic queries, new features and media typ ...

Keywords: Multimedia information retrieval, audio retrieval, human-computer interaction, image databases, image search, multimedia indexing, video retrieval

12 Data conversion and restructuring: An Access Path Specification Language for restructuring network databases

Donald Swartwout

August 1977 **Proceedings of the 1977 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings

The Access Path Specification Language (APSL) is a high-level essentially nonprocedural language for specifying restructuring transformations of network databases. It does so in terms of application-oriented concepts such as access strategies and selection criteria. APSL's approach to restructuring emphasizes description of the source *structures* from which target data is to be retrieved, rather than the *operations* needed to convert source constructs to target constructs. The latter ...

Keywords: data translation, data translation language, data translation software, database restructuring, network databases, network restructuring, restructuring languages, restructuring software, translation specification languages

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Thomas Kunz, Michiel F. H. Seuren

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Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

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14 XML data management and web discovery: Exploiting native XML indexing techniques for XML retrieval in relational database systems
Felix Weigel, Klaus U. Schulz, Holger Meuss
November 2005 **Proceedings of the 7th annual ACM international workshop on Web information and data management WIDM '05**
Publisher: ACM Press
Full text available: pdf(569.93 KB) Additional Information: full citation, abstract, references, index terms

In XML retrieval, two distinct approaches have been established and pursued without much cross-fertilization taking place so far. On the one hand, *native XML databases* tailored to the semistructured data model have received considerable attention, and a wealth of index structures, join algorithms, tree encodings and query rewriting techniques for XML have been proposed. On the other hand, the question how to make XML fit the relational data model has been studied in great detail, giving r ...

Keywords: CADG, RCADG, RDBMS, RDBS, Relational CADG, XML indexing, XML retrieval, content-aware dataGuide, query evaluation, relational database, storage scheme

15 Integrating symbolic images into a multimedia database system using classification and abstraction approaches
Aya Soffer, Hanan Samet
December 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(227.30 KB) Additional Information: full citation, abstract, index terms

Symbolic images are composed of a finite set of symbols that have a semantic meaning. Examples of symbolic images include maps (where the semantic meaning of the symbols is given in the legend), engineering drawings, and floor plans. Two approaches for supporting queries on symbolic-image databases that are based on image content are studied. The classification approach preprocesses all symbolic images and attaches a semantic classification and an associated certainty factor to each object that ...

Keywords: Image indexing, Multimedia databases, Query optimization, Retrieval by content, Spatial databases, Symbolic-image databases

16 Database techniques for the World-Wide Web: a survey
Daniela Florescu, Alon Levy, Alberto Mendelzon
September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(1.79 MB) Additional Information: full citation, citings, index terms

17 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

18 Database systems I: Database management for multimedia distributed collaborative writing
A. Wesley Wear, Yu Gong, Kai H. Chang
March 1995 **Proceedings of the 33rd annual on Southeast regional conference ACM-SE 33**

Publisher: ACM Press

Full text available: pdf(900.65 KB) Additional Information: full citation, abstract, references

Traditional computer applications have been designed to be run by one user at a time who does some work in a single medium, such as ASCII text, and very little regard has been given to the fact that people often work together. With the recent development of computer networks and the widespread deployment of networked workstations, automating the group writing process for geographically distributed users has become feasible. In this paper, a software package which supports distributed, real-time, ...

19 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(947.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

20 Intelligent database caching through the use of page-answers and page-traces

Nabil Kamel, Roger King
December 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(3.08 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper a new method to improve the utilization of main memory systems is presented. The new method is based on prestoring in main memory a number of query answers, each evaluated out of a single memory page. To this end, the ideas of page-answers and page-traces are formally described and their properties analyzed. The query model used here allows for selection, projection, join, recursive queries as well as arbitrary combinations. We also show how to apply the approach under update ...

Keywords: artificial intelligence, databases, page access

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1 Complete answer aggregates for treelike databases: a novel approach to combine querying and navigation
Holger Meuss, Klaus U. Schulz
April 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 2
Publisher: ACM Press
Full text available: pdf(356.60 KB) Additional Information: full citation, abstract, references, citings, index terms

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Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

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3 On the design of relational database schemata
Carlo Zaniolo, Miachel A. Meklanoff
March 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 1
Publisher: ACM Press
Full text available: pdf(3.43 MB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: decompositon, functional dependencies, minimal covers, multivalued dependencies, relational databases, schema design

4 A formal approach to the definition and the design of conceptual schemata for databased systems

Carlo Zaniolo, Michel A. Melkaoff
March 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 1
Publisher: ACM Press

Full text available: pdf(2.83 MB) Additional Information: full citation, abstract, references, citings, index terms

A formal approach is proposed to the definition and the design of conceptual database diagrams to be used as conceptual schemata in a system featuring a multilevel schema architecture, and as an aid for the design of other forms of schemata. We consider E-R (entity-relationship) diagrams, and we introduce a new representation called CAZ-graphs. A rigorous connection is established between these diagrams and some formal constraints used to describe relationships in the frame ...

5 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn
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Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

6 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press

Full text available: pdf(316.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

7 A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis
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Publisher: ACM Press
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Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

8 Formal query languages for secure relational databases

Marianne Winslett, Kenneth Smith, Xiaolei Qian
December 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 4
Publisher: ACM Press
Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, citings, index terms

The addition of stringent security specifications to the list of requirements for an application poses many new problems in DBMS design and implementation, as well as database design, use, and maintenance. Tight security requirements, such as those that result in silent masking of witholding of true information from a user or the introduction of false information into query answers, also raise fundamental questions about the meaning of the database and the semantics of accompanying query la ...

Keywords: formal security models, information security, multilevel secure databases

9 A taxonomy for secure object-oriented databases

Martin S. Olivier, Sebastiaan H. von Solms
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12 Formal Models for Computer Security

Carl E. Landwehr
September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3
Publisher: ACM Press
Full text available: pdf(2.98 MB) Additional Information: full citation, references, citings, index terms

13 Database applications I: A form application development system

Lawrence A. Rowe, Kurt A. Shoens
June 1982 **Proceedings of the 1982 ACM SIGMOD international conference on Management of data SIGMOD '82**
Publisher: ACM Press
Full text available: pdf(938.05 KB) Additional Information: full citation, abstract, references, citings

This paper describes **FADS** --- a Form Application Development System which is an interactive system for the development of form-based database applications. **FADS** reduces the amount of work required to implement a forms application by suppressing much of the detail which would be required by conventional tools (e.g., a screen definition system, a database system, and a programming language). **FADS** provides direct access to a relational database, a standard model of the user int ...

14 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

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15 An analysis of XML database solutions for the management of MPEG-7 media

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Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
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Keywords: MPEG-7, XML database systems, multimedia databases

16 Data conversion and restructuring: An Access Path Specification Language for restructuring network databases
Donald Swartwout
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Keywords: Data retrieval, Document retrieval, Index structures, Integrated information retrievals, Structural join, XML

18 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

19 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
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We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

20 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia
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Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

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